



## VACUUM TRUCKS



**INDUSTRY FIRST  
WIRELESS  
OPERATION**

**TORNADO Technologies Inc.**

*Design and Manufacturing since 1984*

# The EVOLUTION of Vacuum Truck Technology

Tornado is proud to introduce our entry into the Vacuum Truck market. With all new wireless operation, minimized overall truck weight and countless ground breaking features, Tornado Technologies Inc. is once again leading the way in research and development. Our promise to customers is to continually update traditional technologies with innovative new designs. Each unique feature translates into a money and time-saving benefit for your business.

## WIRELESS CONTROL

**An industry first!** Tornado provides operators with a wireless remote to control all functions of their truck from hundreds of feet away, or even from within the cab. The handheld unit operates:

- Vacuum On/Off
- Hoist
- Vacuum/pressure level (lbs)
- ESD (vacuum or entire truck)
- Water Pump (for combo units)
- Rear gate and valves
- Agitator and Vibrator
- Engine RPM's



Field spreading can be controlled wirelessly from the cab.

## INNOVATIVE PUMP CUBE DESIGN

Tornado has taken the traditional vacuum truck and painstakingly reconfigured the Pump Cube for **maximum space and weight efficiency**. Operators will love the clean layout. All your key components are smartly positioned for trouble-free maintenance and operation. By packaging the cyclone, filter housing, blower, silencers, hydraulic tanks, coolers and 4-way valve in one bolt-on cube, Tornado has created a more balanced, centralized mass that weighs far less and means more usable storage space. Our innovative design simply makes sense.



### Cyclone

High efficiency cyclone directly mounted to the pump cube for space efficiency. Features include a heated 2" full-port drain to eliminate freezing, and debris catch level shutdown.

### Hydraulic Cylinder

Superior nitride-coated cylinder eliminates corrosion for service-free life.

### Control Box

The heart and soul. Computer control system, electrical, hydraulic and air controls are centralized, organized and easily accessible.

### Electrical System

Military grade, custom-built, 100% sealed/tested harnesses ensure zero maintenance or issues.

### Code Vacuum Tank

Designed and constructed in full compliance with Transport Canada specification CSA B620-03 for the following specs 407; 412.

### Redesigned Safety Features

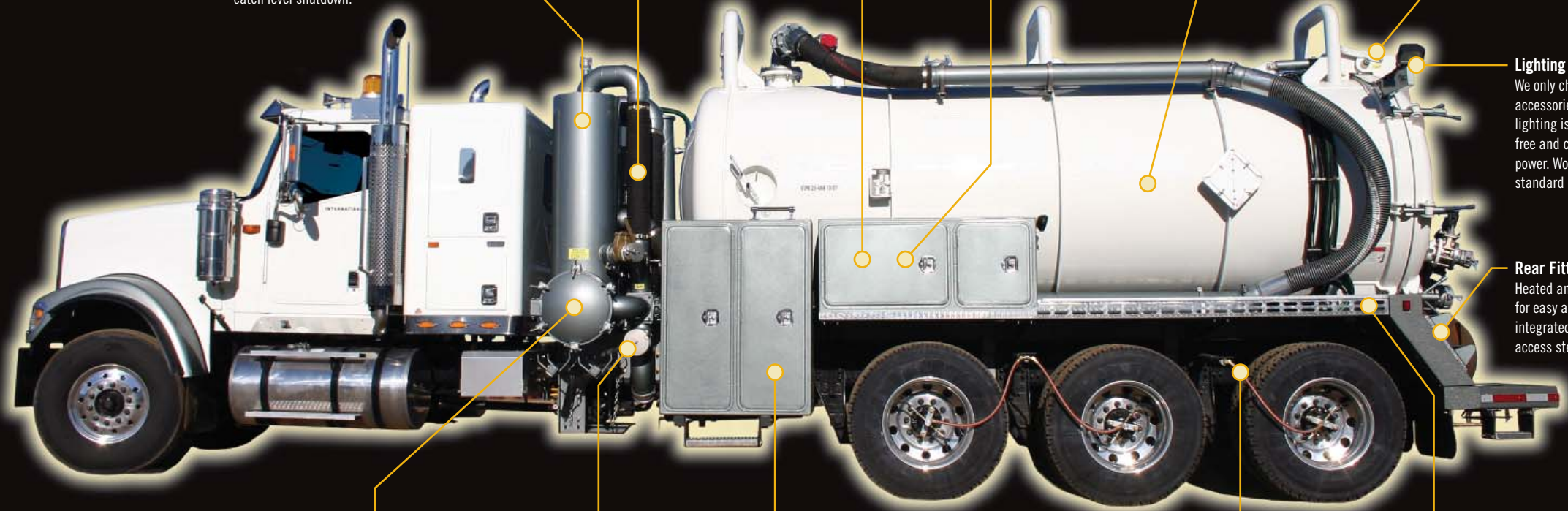
- Self-engage/reset latch safety for rear dump door
- Tank safety prop for tank hoist
- Non-slip surfaces throughout

### Lighting

We only choose the best accessories. Ample LED lighting is maintenance free and consumes less power. Work lights are standard on all units.

### Rear Fittings Boxes

Heated and organized for easy access; with integrated pinwheel access steps/platform.



### Smarter Painting

Tornado finishes with the highest quality painting of individual components – not assemblies. Less rust keeps your investment looking great for years to come.

### Filter Housing

Large stainless mesh filter for decreased servicing and long life.

### Discharge Vent

For either driver or passenger-side remote venting.

### Tool Boxes & Storage

More functional space, better lighting, heated, properly sealed, and plentiful.

### Blower

Rubber-mounted to minimize NVH (Noise Vibration Harshness). With optional dampening enclosure, Tornado has created the quietest Vac truck in the industry.

### TIREBOSS™ System

Automatic monitoring/control of tire pressures.

### Modular Deck Assembly

One dent shouldn't mean repairing the entire deck! Tornado assembles in modular pieces allowing targeted maintenance, repair or replacement of aluminum checkerplate decking.

## REDUCED FOAMING

Tornado gives you precise control over the tank's vacuum level. By incrementally lowering suction power, in-tank foaming is dramatically reduced and headaches eliminated.

## REDUCED WEIGHT

**Maximize your payload!** Tornado has significantly reduced overall weight to help put extra money in your pocket – not at the scales.



## ONBOARD COMPUTER SYSTEM

**The most intelligent Vacuum Truck on the market.** Tornado's proprietary onboard computer system offers real-time diagnostics. Truck performance is monitored – and even corrected! – to protect YOUR INVESTMENT. Operators will benefit from automated shutdowns, tank pressure control, fan temperature controls, hydraulic leak detection, and much more. As much as possible, the vacuum truck operates itself! Tornado can even program customized software to meet your specific needs.

# MORE CHOICE

Tornado designs a range of industrial vacuum trucks to suit different applications and customer needs, including:

**COMBO TRUCKS** All the cutting-edge features of Tornado's straight vacs packaged with wash capability for greater versatility.

**TRAILER VACS** Additional capacity with stiff-pole pup trailers.

**HYDROVACS** Already considered the best dedicated hydro-excavator in the industry, Tornado continues to expand our Hydrovac product line with more options and superior productivity.

## Tornado Vacuum Trucks

*Vacuum loading equipment for industrial, oilfield and environmental applications designed to exceed Transport Canada 407; 412 standards.*

**Tank Sizes:** 77 through 92bbl

**Tank Specifications:** Built to ASME Section VIII & CSA B620

**Wireless Controls:** Omnex remote control, handheld

**Onboard Computer System:** Tornado Proprietary VAC-Watch; monitoring and diagnostics

**Blower:** Hibon VTB-820 (1400 CFM, 27" Hg) or VTB-822 (2650 CFM, 28" Hg); isolated mounting

**Blower Drive:** Chelsea 8-bolt PTO to closed-loop hydraulic system

**Rear Door Valves:** Two 4"; One 6"; air-actuated piston gate valves

**Valve Heating:** Engine coolant heating to all rear door, isolation, and cyclone dump valves

**Vacuum Pressure Piping:** 6" permanent piping (no vacuum disconnect); 6" check valves (blower protection); 6" four-way diverter valve (tank pressurization)

**Filtration System:** 6" high efficiency cyclone; Washable stainless steel inline filter element

**Silencers:** One 6" chamber-type discharge silencer; One 6" absorptive-type intake silencer

**Hydraulic Dump System:** Full-length hydraulic dump sub frame; Nitride-coated dump cylinder; Full-opening hydraulic rear door assembly, with self-engage/reset latch safety system

**Hydraulic System:** 80 IG hydraulic reservoir, integrated cooler mounts; Fan-assist hydraulic oil cooler; Cabinet-mounted valve body for control of dump, rear door, vibrator, agitator, and optional fold up bumper

**Vibrator:** Cougar HT-3200 vibrator

**Agitator:** Gallup in-tank centrifugal agitator

**Cabinets:** All heated and lit; Aluminum cabinets (upright, below-deck, control, fittings boxes, optional junk box) featuring Western Truck Body doors

**Other Standard Features:** Full length aluminum checkerplate decking/handrails; Tank ladder rungs; Four TDG placard holders; Retractable static line assembly; DOT-approved LED lighting; DOT bumper; 4" SS DOT 25 PSIG pressure relief valve; Tire chains; Squeegee rack

**Chassis & Options:** Please contact your Tornado representative for other options and minimum chassis requirements



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